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83600130.q M-PSSEQEALSM- IHDDE-PPEIKEDVD- NDRINEADKEPFSGNHFQGP KILSGKHFRLNHEQ- TCVIAVS PGGNMHETSRGLVSEPGDADSERKVDGYRKQ

AK100288.q M-PSSEQEALSMSEY- QRGVSAWNFDV EELK- QASLIRDDE- PPEIKEDVD- TARTIEVEKFDSFNRILNGSSSTIENFFSGRTTAAANSDCGDFSFPEAFDFGEGNNVDTKIMNGYENARSEN- SSSPESKYWRSTSGQXQTSGTGAWSGGVNSTTGGVHGV

22328895.p M-ATADEEPAISQSEY- QRGVSAWNFDV EELK- QASLIDDDDEESKEDEEFLCAQFN- KVNDQVSEVDSLQSLVENVNGKE KVSDNTEVEEPEPTCKEKFIFVTTSSLRMSPNSEHDLPEAKVKPLRQRQSGLTSRIVLSEHASE

30681538.p SEY- QRGVSAWNFDI EELK- QASLLDDDDILTESREEEESFGEQLHNKVNDRGQVSGSQLLSENNGKE KASDTEVVEPICEEKSTLNSTTSSVEQPASSSEQDVPAKGPVRLQTHSGFLSSGVULINSDSE

15223145.p -GDKEPKSHEY- MRGICISAWNFDI EELK- QASLVIIINPEEYINSEIQE- LNRNGDVPKCKPVIRQSQTM PLEYFSEKAADMVSESSQLTGSLLSPFIRKFL

15220847.p -GNKEPKVSEN- VEALM- EPAALVN P- VSCDPAVQ L

30685021.p SEYEAHLSQQEY- IRGICISAWNFDI EELK- QAAILISDDD-TSHAE- EP- DFNQKQCERQDES- ALSPER- ASSSATAPSQDELNLIDHDELESSFAS- FPIKPL

AK065283.q L-GSESKPLSKEY- IRGICISAWNFDI EELK- AAALIDNTGCHLDGVS- KFKDGLQGWNEANEPE-NIYQGR ANLVASARP- DEB1QEVLEDGALASSFSRSL

83515282.q -QKMPDGKKEIS- YKRCGQWTFDMDLKS- QASLITECDDISICKDS-D- ASCFYDLDITLPERATGPHM SRVEISKYDIDTDEYINAQDVKRGTCK- W

15219437.p GSATSLQALDSQDTQSEBIQEDTGQITNKYLQPLIHSLSIARDK- GDDDSLASPSYDSYYVSSPRH- EDLSLNNTTHVGSTHANNGK P-TDATSIPTINQPTTEIAGSSVLADGNG- A

4222009.q P LDKCKPKEASQDEY- MRGVSEAWNFDI EELK- QAALYQDEN DGCEDYEYL- FL

67070014.q VSP- CRBASSGGNVVAAKN- RRIISCGWNFNEESFED D

15233460.p VGD- DDEEEEEEDEETVKN- RRIISCGWNFNEESFED D

24647991.f RTV- TGEWWVSSSEEDNGGATGSGDRKHPSSPSDSEDRVMNRLERA DSSSDRE

17137464.f RTV- TGEWWVSSSEEDNGGATGSGDRKHPSSPSDSEDRVMNRLERA DSSSDRE

31200161.i RSM- TGEWWVSSSEEDNGGATGSGDRKHPSSPSDSEDRVMNRLERA DSSSETED

17566096.w KDA- HGNWEPEYDSDPQES KNDSELEDEEREKKKKK ASASAGAG

9507133.m KTE- DGDWEWSDDDEMDEK SEEKGAAASQEKSSRRVK EENPEISV

8394347.m KTE- DGDWEWSDDDEMDEK SEEKGAAASQEKSSRRVK EENPEISV

STLK3.h KTE- DGDWEWSDDDEMDEK SEEKGAAASQEKSSRRVK EENPEISV

34866634.m KTE- DGGWEWSDDDEFDEE SEEKGAAISQLR- LFS AADPMGTLLOVQPEQISAHLPQ

38090154.m KTE- DGGWEWSDDDEFDEE SEEKGAAISQLRSPRVDLSLSSSELF- AAEPMGTLLOVQPEQISAHLPQ

OSR1.h KTE- DGGWEWSDDDEFDEE SEEKGAAISQLRSPRVEKESIGNSELF- TTDPMGTLLOVQPEQISAHLPQ

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83600130.q GEAAVKLASD- KQKSCSTKRTTINLSPGLALPTRASANSLASPARISSGGYVGSLGDKRSVVEIKGFSVTSNEVLDAKQEVPT SGISRKLQBGSSLRKSAVGHWVVD- AKPM

AK100288.q RDATVQSL- KLRTEETRATNLSPGLPLTPRASANSLASPARISSGGYVGSLGDKRSVVEIKGFSVTSNEVLDAKQEVPL SSLSRKPQASPLKKSAVGDWLVN- TKPMNSHSHVKELCNSSVSSILLIPHLLENLV

22328895.p KSHIFERSESEPQTAPITVRRAPSFSGPLNLSRASSNLSAPIKSYGFRDSDLDDKSKANLVQ- KGRFSVTSNEVLDAKQEVPL SIVPRRSRQPATPLRSVSAVGNWLEPKMPTAQPTKIEHSSHPTSPSPMQLQHIF

30681538.p KVHGHEYERSESERQLKSSVRRAPSFSGPLNPRASANSLAPIKSSGGFRDSIDDKSKANVQVQIKGFSVTSNEVLDAKR- ASPLRKSAASVGNWLDSKMPTQ- QAIKESSHSHLS FIIPQLQNF

15223145.p PALG- NACNSDRAEAKLAPEEPVQLHPLADTJKTKRAGSDQEEKEPKNGYADSPGNSRRESSTLEPEPLADTJKQVRKPGNECEK- PKNYKIVSHVNRESTS- EELIPQLQSLSS

15220847.p PILO- NILLIQND- IQREN- VEALLTPEAIL -VNPVSCD

30685021.p QALKGCFDISEDEDNATTWDK- ANVNSQGQLLTAKASIGSLAETTKEEDTAAQNTSLPRHVIS EKKYLSGSIIIFSTFSFKR- ITSDADREFQQRYYQTERYSGSLYRTKRD- VDETSEVPHVENKGRFKVTSAIDLSPFKGSTNSTFTPFSSGTTSPSCINATT

AK065283.n EALKSCFVCGDPPDTTDLRQEMPPNEMESTMFQOQVQIENKSCANCERSLASAVSNLVSNSGSHKPLSGSLIPEVHLVSYRNVGNDPARNECHQKNTICNRNRSGPLFRQMD- RAHLPVPEPEQSEGKVIQRRGRFQVTSIAKQVASSRCSRNCENLPIGVIRSTVH- STILPQFM

83515282.q PGQETQLHRSXKHQINHNRNDKCNNGPLQVADEPSEAVPKVPSKSAANVEDHDRSKPPLIHKVTPGHVELDKAHSPG- QKSMQAIASHLPSLPISSIEASTIG- GSLYMLQYMLNVL

15219437.p PINK- GESDKTPEOLQNSGNCNGHTPTVGODVSETEMAVKPKAASSLDESDDKSKPPVQVQORGRKVPTSENLDEK VLCQHSSAALPHSDVILNLNTS- SYVXPPLVYRVL

4222009.q FELDTICESAPIDVQSRDYSK- ENEKYKFWPSHILQEVNSCKDPEYIKSAIQKPKVTVGEAVRVEK- LEVATPRES- KELLERIA-

67070014.q PTDPKPEQQQQPQCFHHIDNDDDMVHEHQEQRHEDCNDGSSDVAV- PHLVTL

15233460.p P- PVPFATESDSSESSPREEDQSKDKEEDDNVTTTGYELQGLGSNEEAK- NOEGBV

24647991.f PSPEITHVSATVTPGAPAAAGAGAAQELTAGIAQLPLPSEAAGEAPPVNLVRLMRNRLRELDHIDPEFVVKDGTAEQ- IATELV

17137464.f PSPEITHVSATVTPGAPAAAGAGAAQELTAGIAQLPLPSEAAGEAPPVNLVRLMRNRLRELDHIDPEFVVKDGTAEQ- IATELV

31200161.i TSRSGVTVTGSNTQPTIDFXTLEATAAVG- AMSLGTMPVNLVRLMRNRLRELDHIDPEFVVKDGTAEQ- IAABLV

17566096.w AAGAAGGATGGAAS- CAPSAQEGGATT CPTELMLNVLVRNQPELNDIDPELDTKSAIDTVEG- IAHLRV

9507133.m NAGGIPEQIQSLVHDSQGQPNANEDYREGP- CAVNLVRLRLRSRKELENDIDPEFTPGRDTADG VSQBVF

8394347.m NAGGIPEQIQSLVHDSQGQPNANEDYREGP- CAVNLVRLRLRSRKELENDIDPEFTPGRDTADG VSQBVF

STLK3.h SASTIPEQIQSLVHDSQGQPNANEDYREGA- CAVNLVRLRLRSRKELENDIDPEFTPGRDTADG VSQBVF

34866634.m PASQMPTQPAQVSLPPAFAK- FAQARSSGERS QETKVPISLVLRLRNSKKELENDIDPEFTPGRDTADG VSQBVF

38090154.m FAGGMPMTQPAQVSLPPAFAK- FAQARSSGERS QETKVPISLVLRLRNSKKELENDIDPEFTPGRDTADG VSQBVF

OSR1.h PAGGIATOPTQSVLSPPTAETAKTAQALSSGGS- QETKVPISLVLRLRNSKKELENDIDPEFTPGRDTADG VSQBVF

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1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170

83600130.q DL- TNLQ- NEKADATQY- RLGN- MDGDTEVETSI- SEGERSLLLKIFELQSRMIS- TDE- ITT- LQHVQLQ- BEELKIIYCHEEIIDTREV DNA- .

AK100288.q KQTMFQDQDLIMVNLSLQ- NEKVDGVLSGISPLQLRN- TDSDTMVGSVN- SEKERSLLVKISELQSRMITS- TDE- IIAKLLKHVQLQ- EINALYCREEIEDIRDDNEET-

22328895.p QQNLQQDLMNLLNLSQ- VEA- TEQGSQSKPLPFLR- SDSNG- NVEFVA- SERERLLLSSISLIIARLDD- TDE- DIIKSKYSQNLQKLAFLKIGFRE- .

30681538.p QMQLQQDLMNLLNLSQ- VEA- TTDDGSQNLQKPLRGS- DSGNSNGTVELTA- AERERLLLSSISLIIARLDD- TDE- DIIKSKYSQNLQKLAFLKIGFRE- .

15223145.p VQNDIQRQAVIRLRFDR- TAK- TNPIISKTEG- SLCYVKFHDLQVFC- KSEPKVLAICKLQYQQRQYCLRF- TFCSRGNDKFHKL- .

15220847.p IQNDIQRQAVIRLRFDR- TAK- KFAVFLSLEFAS- TSERELQSQVMLNQVFC- KSEPKVLAICKLQYQQRQYCLRF- TFCSRGNDKFHKL- .

30685021.p QMNQREBILRLKYM- ECTAK- QPKGS- PETINV DLLQ- TTPA- TSERELQSQVMLNQVFC- KSEPKVLAICKLQYQQRQYCLRF- TFCSRGNDKFHKL- .

AK065283.q QNNTMQKEV1ERLSS- TEC- ISD- AADASTTGQSSPSGV- HFREKELQSYIANLQSVTE- AEEVQRIKLNTOLEQ- INAL- PKKDERLRRREDTR- QQ

83515282.q QTNTMQRQEVILHAKM- LSCCDMM- TSPFACATRASSPSSALSIDRSLL- EAHEKEKBLVNEIT- ELLQWRLVCSQDEQRIKAAQOL- IIYHMKKDES- LTIIGGHIVDTLVQLELESQ- KQPTSP- ISTL- SYKLYVHTA- EASVIG- PFTSLLVSPCVVPPAGECYNRY- VD

15219437.p QTNLRLERM- DLEKLVKEVN- NLLOCPLQRLRN- WLICAEPP- QKVKTE- BHAVGMSN- .

4222009.q RMLIDSOEV- R- REKGN- CNFVLLKLYP- EK- KRD- KRS- NRV- UMP- TATVAKS- YNPS- .

67070014.q GSLEMQRDMVMOLE- EGDDGGGG- TAGREEMLVGVY- RE- EK- KRD- KRS- NRV- UMP- TATVAKS- YNPS- .

15233460.p G- FDKDVL- EK- LK- V- KK- LEH- QRARV- III- EAL- SGD- KE- E- S- E- L- M- E- V- E- R- S- L- V- G- F- Q- A- Q- S- I- K- .

24647991.f DAGI- VDALD- TOPMATH- D- C- L- I- A- S- ATM- T- I- F- Q- S- C- V- Q- P- C- E- V- D- E- R- S- L- V- G- Y- Q- S- I- T- D- .

17137464.f DAGI- VDALD- Q- P- M- T- D- C- L- I- A- S- ATM- T- I- F- Q- S- C- V- Q- P- C- E- V- D- E- R- S- L- V- G- Y- Q- S- I- T- D- .

31200161.i GAGI- L- D- E- D- L- I- A- S- G- T- I- L- D- I- R- G- C- T- L- T- V- I- F- V- E- R- S- L- V- G- Y- Q- S- I- T- D- .

17566096.w TAEL- IDCHD- LVVIA- AND- Q- K- L- D- F- A- E- SK- DR- S- R- S- I- T- F- A- N- S- V- H- A- N- E- I- D- E- R- T- H- T- G- F- A- Q- I- S- L- D- .

9507133.m SAGI- LVVGD- H- VV- I- V- A- N- D- Q- K- L- V- D- P- K- A- I- C- L- T- F- K- J- A- S- C- G- D- G- S- E- I- D- E- V- K- L- I- G- F- A- Q- L- S- V- S- .

8394347.m SAGI- LVVGD- H- VV- I- V- A- N- D- Q- K- L- V- D- P- K- A- I- C- L- T- F- K- J- A- S- C- G- D- G- S- E- I- D- E- V- K- L- I- G- F- A- Q- L- S- V- S- .

STLK3.h SAGI- LVVGD- H- VV- I- V- A- N- D- Q- K- L- V- D- P- K- A- I- C- L- T- F- K- J- A- S- C- G- D- G- S- E- I- D- E- V- K- L- I- G- F- A- Q- L- S- V- S- .

34866634.m SAGI- LVVGD- H- VV- I- V- A- N- D- Q- K- L- V- D- P- K- A- I- C- L- T- F- K- J- A- S- C- G- D- G- S- E- I- D- E- V- K- L- I- G- F- A- Q- L- S- V- S- .

38090154.m SAGI- LVVGD- H- VV- I- V- A- N- D- Q- K- L- V- D- P- K- A- I- C- L- T- F- K- J- A- S- C- G- D- G- S- E- I- D- E- V- K- L- I- G- F- A- Q- L- S- V- S- .

OSR1.h SAGI- LVVGD- H- VV- I- V- A- N- D- Q- K- L- V- D- P- K- A- I- C- L- T- F- K- J- A- S- C- G- D- G- S- E- I- D- E- V- K- L- I- G- F- A- Q- L- S- V- S- .

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